

Remarks

Regarding "Priority under U.S.C. §119 on page 1 of the Office Action, it is noted that certified copies of the priority documents were filed by the applicants on February 10, 2004.

Claim 1 was amended to recite a "non-stretched" resin film. the term "non-stretched" is supported by the last column in each of Tables 1 and 2 on pages 88 and 89, respectively, of the specification.

The amendment to claim 10 involving "laminated" is supported on page 46, lines 1 to 6 of the specification.

The amendment to claim 13 involving "laminated" is supported on page 41, lines 22 to 27 of the specification.

Claims 22 to 24, 28, 31, 34, 37, 41, 43, 46 and 49 were objected to under 37 CFR 1.75(c) as being an improper form for the reasons stated in Item No. 1 at the top of page 2 of the Office Action.

Each of original claims 22, 23, 24, 28, 31, 34, 37, 41, 43 and 46 was an improper multiple dependent claim because each of these claims depended from two or more preceding claims. In each of said claims, the references to a preceding claim referred to the preceding claim for a definition of a component. Each of said references to a preceding claim for the purpose of a

definition of a component was amended by replacing the reference to the preceding claim with the definition of the component taken from said preceding claim. Thus, original claim 22 which depended from claim 1 for the definition of one component and from claim 10 for the definition of another component was amended by inserting the said two definitions in place of the respective references to claims 1 and 10. The present amendment to each of claims 22, 23 and 24 results in each of these claims becoming an independent claim. Each of the remaining claims is a proper dependent claim because each depends only from one preceding claim.

Claims 13 to 20, 32, 33, 35, 36, 44, 45, 47 and 48 were rejected under 35 USC 112, second paragraph for the reasons set forth in Item No. 2 at the bottom of page 2 of the Office Action.

The claims were amended to replace "consisting mainly" with --comprising--. Withdrawal of the rejection under 35 USC 112, second paragraph is therefore respectfully requested.

The other amendments to the claims involve only editorial revisions.

Claims 1 to 12, 21, 25, 27, 29 to 30, 38 to 40 and 42 were rejected under 35 USC 103 as being unpatentable over Yabe et al.

USP 4,362,775 for the reasons indicated in Item No. 4 on pages 3 to 4 of the Office Action.

Claim 26 was rejected under 35 USC 103 as being unpatentable over Yabe et al. in view of Okamura et al. USP 5,585,177 for the reasons stated in Item No. 5 on pages 4 and 5 of the Office Action.

Yabe et al USP 4,362,775 relate to a polyester film-heat-bonded metal sheet, which comprises a biaxially oriented (stretched) polyester film or films, heat-bonded to a metal sheet by means of an adhesive. When the film is stretched, granular particles in the film are stretched and changed into disk shape particles. Accordingly, a granular resin does not exist in the stretched film. The impact resistance of the stretched film is improved by the stretch of the film. An addition of a polyolefin does not improve the impact resistance of the Yabe et al. film.

In contrast, to Yabe et al., the presently claimed invention is directed to a non-stretched resin film, which is substantially different from the biaxially oriented (stretched) polyester film of Yabe et al. The non-stretched resin film of the presently claimed invention has a good workability. However, the non-stretched resin film has a low strength and brittle property.

The addition of the polyolefin improves the balance of the workability and the impact resistance.

It was admitted at the bottom of page 3 of the Office Action that Yabe et al. do not explicitly disclose the grain size recited in applicants' claims, i.e., a grain diameter of 0.1 to 5 μm .

The modified polyolefin resin according to the present invention exists in a granular state having a grain diameter of 0.1 to 5 μm which improves the impact resistance and also prevents adverse influences on properties such as formability and heat resistance (see the present specification on page 27, lines 16 to 21).

As described in the specification on page 27, last line to page 28, line 3, when a modified polyolefin resin is dispersed in a polyester resin, a wide dispersion occurs from very fine grains with a diameter not larger than 0.1 μm to large grains with a diameter exceeding 5 μm .

The grains with a diameter smaller than 0.1 μm exert no influence on the physical properties of mixed resin. The grains with a diameter exceeding 5 μm also do not improve the physical properties such as formability of mixed resin, but rather

decreases the physical properties (see the present specification on page 28, lines 3 to 7).

In the present invention, the composition of the modified polyolefin resin is defined and the method of manufacturing the film is adjusted such that the granular resin has a grain diameter of 0.1 to 5 μm .

As discussed above, Yabe et al USP 4,362,775 does not teach or suggest a grain diameter of the granular resin of 0.1 to 5 μm .

Okamura et al. teach only a triple laminated thermoplastic resin laminated metal sheet. Okamura et al. was cited only for its disclosure of chromium.

It is therefore respectfully submitted that applicants' claimed invention is not rendered obvious over the references, either singly or combined in the manner relied upon in the Office Action in view of the many distinctions discussed hereinabove. It is furthermore submitted that there are no teachings in the references to combine them in the manner relied upon in the Office Action.

Reconsideration is requested. Allowance is solicited.

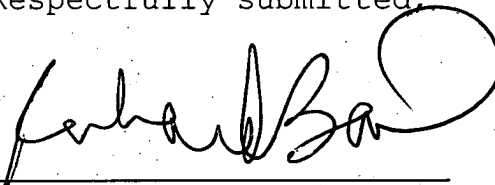
The original claims included only one independent claim. The present currently amended claims include four independent claims (claims 1, 22, 23 and 24). Accordingly, an additional

Appln. No. 10/665,459
Amendment dated November 29, 2004

filing fee for one independent claim in excess of three, is required. Please apply the enclosed check in the amount of \$88.00 as the additional filing fee.

If the Examiner has any comments, questions, objections or recommendations, the Examiner is invited to telephone the undersigned at the telephone number given below for prompt action.

Respectfully submitted,



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Enclosures: (1) PETITION FOR EXTENSION
(2) Check for \$88.00